

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 1

DATED 10/27/2014

Control	1186-01-087
Project	STP 2015(277)HES
Highway	FM 969
County	TRAVIS

Ladies/Gentlemen:

Attached please find an addendum on the above captioned project. Included in the attachment is an addendum notification which details the changes and the respective proposal pages which were added and/or changed.

Except for new bid insert pages, it is unnecessary to return any of the pages attached.

Bid insert pages must be returned with the bid proposal submitted to the Department, unless your firm is submitting a bid using a computer print out. The computer print out must be changed to reflect the new bid item information.

Contractors and material suppliers, etc. who have previously been furnished informational proposals are not being furnished a copy of the addendum. If you have a subcontractor on the above project, please advise them of this addendum. Acknowledgment of this addendum is not requested if your company has been issued a proposal stamped "This Proposal Issued for Informational Purposes."

You are required to acknowledge receipt of this addendum on the Addendum Acknowledgement form contained in your bid proposal by placing a mark in the box next to the respective addendum.

Failure to Acknowledge receipt of this addendum in your bid proposal will result in your bid not being read.

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: STP 2015(277)HES

CONTROL: 1186-01-087

COUNTY: TRAVIS

LETTING: 11/05/2014

REFERENCE NO: 1022

PROPOSAL ADDENDUMS

_ PROPOSAL COVER

X BID INSERTS (SH. NO.: 1 - 9)

X GENERAL NOTES (SH. NO.: SHEET A, SHEETS I THRU J, SHEET L, SHEET M,)
SHEET W)

X SPEC LIST (SH. NO.: 1 THRU 3)

X SPECIAL PROVISIONS:

ADDED: 000--3062

008--008

DELETED: 000--3041

_ SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

X OTHER: SEE CHANGES BELOW

DESCRIPTION OF ABOVE CHANGES

(INCLUDING PLANS SHEET CHANGES)

BID INSERTS -

DELETED BID ITEM 132.2005

REVISED ITEM 247.2392 FROM 618 TO 15,926

ADDED BID ITEM 310.2005

GENERAL NOTES -

UNDER BASIS OF ESTIMATE - ITEM 247 REVISED BASIS AND QUANTITY

- ITEM 310 WAS ADDED

ITEM 132 - EMBANKMENT: DELETED ALL NOTES UNDER THIS ITEM DESCRIPTION
AS THEY PERTAINED TO TY C

ITEM 132 - EMBANKMENT(ALL): ADDED ALL NOTES UNDER THIS ITEM DESCRIPTION

ITEM 132 - EMBANKMENT TY B (NON-SELECT FILL): ADDED ALL NOTES UNDER THIS
ITEM DESCRIPTION

ITEM 247 - ADDED FOURTH NOTE TO THIS ITEM

ITEM 310 - DELETED SECOND NOTE AND REVISED THE MANUAL YEAR IN LAST NOTE.

ITEM 5261 - ADDED ALL NOTES TO THIS ITEM

SPECIFICATIONS LIST -

ADDED ITEM 310

DELETED SPECIAL PROVISION (000--3041)

DESCRIPTION OF ABOVE CHANGES

(INCLUDING PLANS SHEET CHANGES)

(CONTINUED)

ADDED SPECIAL PROVISION (000--3062)
ADDED SPECIAL PROVISION (008---008)

PLANS

SHEET 13:

ADDED PRIME COAT TO LEGEND
CHANGED TY C SELECT TO FLEX BASE TY D GR 5
CHANGED FILTER FABRIC TO GEOGRID (TY II)
CHANGED LIMITS OF TOPSOIL & SEEDING ON PROPOSED TYPICAL SECTION
ADDED LIMITS OF PRIME COAT AND CALLOUT (G) FOR PRIME COAT TO DETAIL 1

PLAN SHEET 14:

ADDED PRIME COAT TO LEGEND
CHANGED TY C SELECT TO FLEX BASE TY D GR 5
CHANGED FILTER FABRIC TO GEOGRID (TY II)
ADDED LIMITS OF PRIME COAT AND CALLOUT (G) FOR PRIME COAT TO DETAIL 1

PLAN SHEET 15:

ADDED PRIME COAT TO LEGEND
CHANGED TY C SELECT TO FLEX BASE TY D GR 5
CHANGED FILTER FABRIC TO GEOGRID (TY II)
CHANGED CALLOUT (G) TO CALLOUT (B) AND ADDED CALLOUT (G) FOR PRIME COAT TO PAVEMENT SECTION W/MBGF & RIPRAP
CHANGED CALLOUT (G) TO CALLOUT (B) AND ADDED CALLOUT (G) FOR PRIME COAT TO PAVEMENT SECTION W/RIPRAP
ADDED CALLOUT (G) TO PAVEMENT TREATMENT AT MBGF AND AT SPECIAL PAVEMENT TREATMENT AT MBGF

SHEETS 16, 16D, 16E, 16F, 16K: NOTES REVISED AS NOTED ABOVE IN GENERAL NOTES.

SHEET 17: ESTIMATE AND QUANTITY SHEET REVISED AS NOTED ABOVE IN BID INSERTS

SHEET 19: DELETED BID ITEM 132.2005
REVISED QUANTITY FOR ITEM 247.2392
ADDED BID ITEM 310.2005

SHEET 20: DELETED BID ITEM 2202.2001
ADDED BID ITEM 5261.2002

SHEET 30: DELETED TY C EMBNK COLUMN AND REVISED QUANTITIES FOR TY D FLEX

SHEET 31: DELETED TY C EMBNK COLUMN AND REVISED QUANTITIES FOR TY D FLEX

SHEET 123: CHANGED TY C SELECT TO FLEX BASE TY D GR 5 ON ASPHALT DRIVEWAY SECTION
: CHANGED TY C SELECT TO FLEX BASE TY D GR 5 ON CONCRETE DRIVEWAY SECTION

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	100	2002	002	PREPARING ROW DOLLARS and CENTS	STA	375.000	1
	110	2001		EXCAVATION (ROADWAY) DOLLARS and CENTS	CY	29,219.000	2
	132	2003		EMBANKMENT (FINAL)(ORD COMP)(TY B) DOLLARS and CENTS	CY	11,990.000	3
	160	2003		FURNISHING AND PLACING TOPSOIL (4") DOLLARS and CENTS	SY	107,521.000	4
	164	2035	002	DRILL SEEDING (PERM) (RURAL) (CLAY) DOLLARS and CENTS	SY	107,521.000	5
	168	2001		VEGETATIVE WATERING DOLLARS and CENTS	MG	2,151.000	6
	169	2001	002	SOIL RETENTION BLANKETS (CL 1) (TY A) DOLLARS and CENTS	SY	107,071.000	7
	169	2003	002	SOIL RETENTION BLANKETS (CL 1) (TY C) DOLLARS and CENTS	SY	450.000	8
	247	2392	033	FL BS(CMP IN PLC)(TY D GR 5)(FNAL POS) DOLLARS and CENTS	CY	15,926.000	9
	310	2005		PRIME COAT (MC-30 OR AE-P) DOLLARS and CENTS	GAL	10,363.000	10
	316	2706	016	ASPH (TIER II) DOLLARS and CENTS	GAL	55,744.000	11

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	316	2718	016	AGGR (TIER II) DOLLARS and CENTS	CY	1,154.000	12
	351	2006		FLEXIBLE PAVEMENT STRUCTURE REPAIR(10") DOLLARS and CENTS	SY	5,000.000	13
	354	2001		PLAN & TEXT ASPH CONC PAV(0" TO 1") DOLLARS and CENTS	SY	25,495.000	14
	354	2003		PLAN & TEXT ASPH CONC PAV(0" TO 3") DOLLARS and CENTS	SY	811.000	15
	400	2005		CEM STABIL BKFL DOLLARS and CENTS	CY	98.000	16
	402	2003		TRENCH EXCAVATION PROTECTION F DOLLARS and CENTS	LF	14.000	17
	403	2001		TEMPORARY SPL SHORING DOLLARS and CENTS	SF	121.000	18
	420	2016	002	CL C CONC (COLLAR) DOLLARS and CENTS	EA	18.000	19
	432	2001		RIPRAP (CONC)(4 IN) DOLLARS and CENTS	CY	137.000	20
	432	2002		RIPRAP (CONC)(5 IN) DOLLARS and CENTS	CY	70.000	21

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	432	2086		RIPRAP (STONE COMMON)(GROUT)(12 IN) DOLLARS and CENTS	CY	8.000	22
	460	2003		CMP (GAL STL 18 IN) DOLLARS and CENTS	LF	105.000	23
	460	2004		CMP (GAL STL 24 IN) DOLLARS and CENTS	LF	49.000	24
	464	2003	006	RC PIPE (CL III)(18 IN) DOLLARS and CENTS	LF	839.000	25
	464	2005	006	RC PIPE (CL III)(24 IN) DOLLARS and CENTS	LF	127.000	26
	464	2064	006	RC PIPE (ARCH)(CL III)(DES 3) DOLLARS and CENTS	LF	31.000	27
	466	2065		HEADWALL (CH-FW-0)(DIA= 24 IN) DOLLARS and CENTS	EA	5.000	28
	466	2130		HEADWALL (CH-PW-0)(DIA= 42 IN) DOLLARS and CENTS	EA	1.000	29
	466	2193		HEADWALL (CH-PW-A-S)(DES= 4) DOLLARS and CENTS	EA	1.000	30
	467	2224		SET (TY II)(24 IN)(RCP)(4:1)(C) DOLLARS and CENTS	EA	8.000	31
	467	2225		SET (TY II)(30 IN)(RCP)(4:1)(C) DOLLARS and CENTS	EA	1.000	32

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	467	2227		SET (TY II)(36 IN)(RCP)(4:1)(C) and DOLLARS CENTS	EA	1.000	33
	467	2286		SET (TY II)(18 IN)(RCP)(6:1)(P) and DOLLARS CENTS	EA	58.000	34
	467	2288		SET (TY II)(24 IN)(RCP)(6:1)(P) and DOLLARS CENTS	EA	9.000	35
	467	2301		SET (TY II)(18 IN)(CMP)(6:1)(P) and DOLLARS CENTS	EA	13.000	36
	467	2303		SET (TY II)(24 IN)(CMP)(6:1)(P) and DOLLARS CENTS	EA	6.000	37
	467	2324		SET (TY II)(DES 4)(CMP)(4:1)(C) and DOLLARS CENTS	EA	1.000	38
	467	2361		SET (TY II)(DES 3)(RCP)(6:1)(P) and DOLLARS CENTS	EA	4.000	39
	467	2516		SET (TY II)(18 IN)(RCP)(4:1)(P) and DOLLARS CENTS	EA	2.000	40
	496	2004		REMOV STR (SET) and DOLLARS CENTS	EA	105.000	41
	496	2007		REMOV STR (PIPE) and DOLLARS CENTS	LF	588.000	42
	500	2001	011	MOBILIZATION and DOLLARS CENTS	LS	1.000	43

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	502	2001	033	BARRICADES, SIGNS AND TRAFFIC HANDLING DOLLARS and CENTS	MO	25.000	44
	530	2010	006	DRIVEWAYS (CONC) DOLLARS and CENTS	SY	426.000	45
	530	2011	006	DRIVEWAYS (ACP) DOLLARS and CENTS	SY	5,866.000	46
	540	2001	031	MTL W-BEAM GD FEN (TIM POST) DOLLARS and CENTS	LF	6,537.500	47
	542	2001		REMOVING METAL BEAM GUARD FENCE DOLLARS and CENTS	LF	3,830.000	48
	542	2002		REMOVING TERMINAL ANCHOR SECTION DOLLARS and CENTS	EA	2.000	49
	544	2003		GUARDRAIL END TREATMENT (REMOVE) DOLLARS and CENTS	EA	20.000	50
	544	2004		GDRAIL END TRT(INST)(WOOD POST)(TY I) DOLLARS and CENTS	EA	36.000	51
	560	2011	001	MAILBOX INSTALL-S (TWG-POST) TY 2 FND DOLLARS and CENTS	EA	6.000	52
	560	2013	001	MAILBOX INSTALL-D (TWG-POST) TY 2 FND DOLLARS and CENTS	EA	5.000	53

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	644	2001		IN SM RD SN SUP&AM TY10BWG(1)SA(P) DOLLARS and CENTS	EA	50.000	54
	644	2004		IN SM RD SN SUP&AM TY10BWG(1)SA(T) DOLLARS and CENTS	EA	23.000	55
	644	2005		IN SM RD SN SUP&AM TY10BWG(1)SA(T- 2EXT) DOLLARS and CENTS	EA	5.000	56
	644	2006		IN SM RD SN SUP&AM TY10BWG(1)SA(U) DOLLARS and CENTS	EA	6.000	57
	644	2025		IN SM RD SN SUP&AM TYS80(1)SA(T) DOLLARS and CENTS	EA	2.000	58
	644	2026		IN SM RD SN SUP&AM TYS80(1)SA(T-2EXT) DOLLARS and CENTS	EA	2.000	59
	644	2060		REMOVE SM RD SN SUP & AM DOLLARS and CENTS	EA	88.000	60
	658	2241		INSTL DEL ASSM (D-SW)SZ 1(FLX)GF2(BI) DOLLARS and CENTS	EA	94.000	61
	658	2316		INSTL OM ASSM (OM-2Z)(FLX)GND DOLLARS and CENTS	EA	23.000	62
	662	2004		WK ZN PAV MRK NON-REMOV (W) 4" (SLD) DOLLARS and CENTS	LF	73,689.000	63

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	662	2113		WK ZN PAV MRK SHT TERM (TAB) TY W DOLLARS and CENTS	EA	6.000	64
	662	2115		WK ZN PAV MRK SHT TERM (TAB) TY Y-2 DOLLARS and CENTS	EA	3,193.000	65
	666	2012		REFL PAV MRK TY I (W) 4" (SLD)(100MIL) DOLLARS and CENTS	LF	73,689.000	66
	666	2036		REFL PAV MRK TY I (W) 8" (SLD)(100MIL) DOLLARS and CENTS	LF	55.000	67
	666	2048		REFL PAV MRK TY I (W) 24"(SLD)(100MIL) DOLLARS and CENTS	LF	155.000	68
	666	2054		REFL PAV MRK TY I (W) (ARROW) (100MIL) DOLLARS and CENTS	EA	1.000	69
	666	2096		REFL PAV MRK TY I (W) (WORD) (100MIL) DOLLARS and CENTS	EA	1.000	70
	666	2111		REFL PAV MRK TY I (Y) 4" (SLD)(100MIL) DOLLARS and CENTS	LF	434.000	71
	666	2132		REFL PAV MRK TY I (Y) 24"(SLD)(100MIL) DOLLARS and CENTS	LF	355.000	72
	666	2145		REF PAV MRK TY II (W) 4" (SLD) DOLLARS and CENTS	LF	73,689.000	73
	666	2153		REF PAV MRK TY II (W) 8" (SLD) DOLLARS and CENTS	LF	55.000	74

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	666	2157		REF PAV MRK TY II (W) 24" (SLD) DOLLARS and CENTS	LF	179.000	75
	666	2160		REF PAV MRK TY II (W) (ARROW) DOLLARS and CENTS	EA	1.000	76
	666	2173		REF PAV MRK TY II (W) (WORD) DOLLARS and CENTS	EA	1.000	77
	666	2178		REF PAV MRK TY II (Y) 4" (SLD) DOLLARS and CENTS	LF	434.000	78
	666	2185		REF PAV MRK TY II (Y) 24" (SLD) DOLLARS and CENTS	LF	355.000	79
	672	2012	034	REFL PAV MRKR TY I-C DOLLARS and CENTS	EA	3.000	80
	672	2015	034	REFL PAV MRKR TY II-A-A DOLLARS and CENTS	EA	1,015.000	81
	1122	2002	001	ROCK FILTER DAMS (INSTALL) (TY 2) DOLLARS and CENTS	LF	727.000	82
	1122	2009	001	ROCK FILTER DAMS (REMOVE) DOLLARS and CENTS	LF	727.000	83
	1122	2037	001	TEMPORARY SEDIMENT CONTROL FENCE INSTLL DOLLARS and CENTS	LF	33,836.000	84

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	1122	2057	001	TEMPORARY SEDIMENT CONTROL FENCE REMOVE DOLLARS CENTS and	LF	33,836.000	85
	3239	2001		TOM (ASPHALT) PG 76-22 DOLLARS CENTS and	TON	523.000	86
	3239	2003		TOM (AGGREGATE) SAC A DOLLARS CENTS and	TON	6,752.000	87
	3268	2010		D-GR HMA TY-B PG70-22 DOLLARS CENTS and	TON	14,722.000	88
	5261	2002		GEOGRID BASE REINFORCEMENT (TY II) DOLLARS CENTS and	SY	75,597.000	89
	6834	2002	002	PORTABLE CHANGEABLE MESSAGE SIGN DOLLARS CENTS and	EA	2.000	90
	8020	2008		REF PROF PAV MRK TY I(Y)4"(SLD)(100MIL) DOLLARS CENTS and	LF	54,088.000	91
	8020	2010		REF PROF PAV MRK TY I(Y)4"(BRK)(100MIL) DOLLARS CENTS and	LF	4,334.000	92

Project Number: STP 2015(277)HES

County: Travis

Highway: FM 969

Sheet:

Control: 1186-01-087

GENERAL NOTES:

Basis of Estimate

Item	Description	**Rate	Basis	Quantity
160	Topsoil	1 CY/7 SY	15360 CY	107521 SY
164	Seed for Erosion Cont	4840 SY/AC	22.2 AC	107521 SY
**166	Fertilizer (13-13-13)	1/8 LB/SY	6.7 TON	107521 SY
168	Vegetative Watering (Item 164)(Perm)	20 GAL/SY	107521 SY	2151 MG
247	FL BS (CMP IN PLC) (TY D GR 5)	3564 LB/CY	28380 TON	15926 CY
310	Prime Coat(MC-30 or AE-P)	0.20 GAL/SY	2073 SY	10363 GAL
316	Surface Treatments Underseal: (TIER II) Asphalt Aggregate (Ty DGR 5)	0.42 GAL/SY 1 CY/115 SY	132724 SY 132724 SY	55744 GAL 1154 CY
3239	TOM (Asphalt) PG 76-22 (Aggregate) SAC A	7.9 LBS/SY/IN 102.1 LBS/SY/IN	132724 SY 132724 SY	523 TON 6752 TON
3268	Dense-Graded Hot-Mix Asphalt(QC/QA) Ty B PG 70-22	110 LBS/SY/IN	60106 SY	14722 TON

** For Informational Purposes Only

GENERAL

References to manufacturer's trade name or catalog numbers are for the purpose of identification only. Similar materials from other manufacturers are permitted if they are of equal quality, comply with the specifications for this project, and are approved.

Do not place surface treatments or pavement when in the Engineer's professional judgment, the apparent general weather conditions are unsuitable for Overlay operations.

Remove and replace, at the Contractor's expense, and as directed, all defective work, which was caused by the Contractor's workforce, materials, or equipment.

Perform work during good weather unless otherwise directed. If work is performed at Contractor's option, when inclement weather is impending, and the work is damaged by subsequent precipitation, the Contractor is responsible for all costs associated with replacing the work, if required.

Accrue contract time charges through the Contractor's completion of the final punchlist.

Meet weekly with the Engineer to notify him/her of planned work for the upcoming week. Provide a three-week "look ahead," as well as all work performed over the past week.

Blade the side slopes to remove all grass from the area of construction before placing flexible base on that portion of the roadway to be widened, leveled-up, seal coated/surfaced treated, or Hot Mix Asphaltic Concrete Pavement (HMACP) overlaid. Blade the sod back onto the side slopes after the proposed items of work have been completed. Consider subsidiary to pertinent Items.

Equip all construction equipment used in roadway work with a permanently mounted 360° revolving or strobe warning light with amber lens. Light will have a minimum lens height and diameter of 5 inches and mounting height of not less than 6 feet above the roadway surface and be visible from all sides. Attach at each side of the rear end of the construction equipment an approved orange warning flag mounted not less than 6 feet above the roadway surface.

Overhead and underground utilities may exist in the vicinity of the project. The exact location of underground utilities is not known.

If working near power lines, comply with the appropriate sections of Local Legal Requirements, Texas State Law, and Federal Regulations relating to the type of work involved.

In the event of unforeseen utility adjustment, the Contractor will prosecute their work in such a manner and sequence as to facilitate the adjustments to be made.

Superelevate all curves to conform to the slope(s) of the existing curves, as directed. Consider subsidiary to the pertinent Items.

Match existing cross slopes, as directed. Consider subsidiary to the pertinent Items.

Provide a smooth, clean sawcut along the existing asphalt pavement structure, as directed. Consider subsidiary to the pertinent Items.

Remove all construction debris and surplus material generated by the construction work within the project limits. Perform this work as directed. Consider subsidiary to the pertinent Items.

Trim vegetation around signs and other obstructions. Consider subsidiary to pertinent Items.

Supply litter barrels in enough numbers at locations as directed to control litter within the project. Consider subsidiary to pertinent Items.

Use a self-contained vacuum broom to sweep the roadway and keep it free of sediment due to the Construction of the Roadway, as directed. Consider subsidiary to pertinent Items.

Protect all areas of the right of way, which are not included in the actual limits of the proposed construction areas, from destruction. Exercise care to prevent damage to trees, vegetation, and other natural surroundings. Areas not to be disturbed will be as directed. Restore any area disturbed because of the Contractor's operations to a condition as good as, or better than, before the beginning of work.

Damage to existing pipes and SET's due to Contractor operations shall be repaired at Contractor's expense.

All locations used for storing construction equipment, materials, and stockpiles of any type, within the right of way, will be as directed. Use of right of way for these purposes will be restricted to those locations where driver sight distance to businesses and side street intersections is not obstructed and at other locations where an unsightly appearance will not exist. The Contractor will not have exclusive use of right of way but will cooperate in the use of the right of way with the city/county and various public utility companies as required. Area north of FM 969 at Taylor Lane is not TxDOT right-of-way, and shall not be used as a stockpile or staging area.

The Project Superintendent will be capable of speaking English and will be available on the project at all times when work is being performed, including subcontractor work. The Superintendent will be available and on-call 24 hours a day.

Furnish, to the Engineer, a list of the final centerline elevations.

During evacuation periods for Hurricane events the Contractor will cooperate with Department for the restricting of Lane Closures and arranging for Traffic Control to facilitate Coastal Evacuation Efforts. In addition, the Contractor's assistance may be requested outside of the Project Limits.

When directed, designate an official backer/spotter or "dump-man" who shall wear specially marked clothing and a specially marked hard hat which specifically identifies them as the backer/spotter and identifies that they are the person who is directing the backing operations. They shall be identified to all project personnel, Contractor and TxDOT, when dumping the various project materials, throughout the course of the project.

Storm Water Pollution Prevention Plan (SW3P)

Maintain erosion control features according to the TxDOT SW3P sheet.

In the event that significant contamination is encountered based on odors, visual evidence, or vapor monitoring, immediately contact the Engineer in accordance with Item 4.3 of the General Provisions of the STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES. The Engineer may suspend work wholly or in part to determine the coordination/management for the testing, removal and disposal of hazardous materials that might be necessary according to all applicable rules, laws and regulations.

When any abandoned well is encountered, cease construction operations in this area and notify the Engineer who will coordinate the proper plugging procedures with Texas Commission on Environmental Quality (TCEQ).

Plug any drill holes, resulting from core sampling on-site or down-gradient of the site, with concrete from the bottom of the hole to the top of the hole so that water and contaminants are not allowed to enter the subsurface environment.

Restrict construction vehicles from traversing or utilizing existing roadways, unprotected construction areas, and areas with vegetative cover.

Maintain vehicles at designated maintenance sites, unless otherwise approved.

Transport any soils contaminated during construction of the proposed project from the site and properly dispose of off-site, off the recharge zone, and off any area draining to the recharge zone of the Edwards Aquifer.

Collect wastewater generated on-site by chemical toilets and transport off the recharge zone and dispose of properly.

Transport any soils contaminated during construction off of the proposed project, away from the site, and properly dispose of off-site.

Collect wastewater generated on-site by chemical toilets, transport and dispose of off-site, in a proper manner.

Suspend all activities near any significant recharge features, such as sinkholes, caves, or any other subterranean openings that are discovered during construction or core sampling. Do not proceed until the designated Geologist or TCEQ representative is present to evaluate and approve remedial action.

Locate aboveground storage tanks kept on-site for construction purposes over bermed impervious liners as to not allow any leakage into underlying soils. Additionally, the containment will be sized to capture 150% of the total volume of fluids stored on-site within the storage area.

No blasting will be allowed within 300 feet of a geologic feature of significant recharge potential, unless otherwise approved. Known locations of these features are available from the Area Engineer.

For all work over or near Bodies of Water (Lakes, Rivers, Ponds, Creeks, etc.):

Keep on hand Synthetic Absorbent Booms (Petroleum Sorbent Booms, Petroleum Socks, Absorbant Socks, etc.) and Absorbent Pads (Eversoak Sorbents, Industrial Absorbent Pads, Calicorp Absorbent Pads, etc.), both types, for spilled petroleum products, in enough quantity to mitigate a petroleum-type spill due to Contract work.

Safety Contingency & Item 502

The Contractor Force Account "Safety Contingency" that has been established for this project is intended to be utilized for work zone enhancements, to improve the effectiveness of the Traffic Control Plan, that could not be foreseen in the project planning and design stage. These enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The

Engineer may choose to use existing bid items if it does not slow the implementation of enhancement.

ITEM 4 – SCOPE OF WORK

Final cleanup will include the removal of excess material considered detrimental to vegetation growth along the front slope of the ditch. Materials such as surface aggregates and other materials, as specified by the Engineer, will be removed at the Contractor's expense.

ITEM 5 – CONTROL OF THE WORK

Before Contract letting, bidders may obtain from the Engineer's office, the earthwork information. If copies of the actual cross-sections (paper copies) are requested, they will be available at the Engineer's office for borrowing by copying companies for the purpose of making copies for the bidder, at the bidder's expense. In addition, cross-sections will be available in electronic format, upon request, at no cost to the bidder.

RDS or GEOPAK earthwork output listings for this project are available upon request, on diskettes or CD ROM's, at the Area Engineer's office.

Mark and maintain 100-foot station intervals for the duration of the project, as directed. Consider subsidiary to pertinent Items.

Electronic Shop Drawing Submittals:

Submit Electronic Shop Drawing Submittals according to the current **Guide to Electronic Shop Drawing Submittal (GESDS)**. For instructions on submitting shop drawings electronically go to TxDOT website (Business with TxDOT > Bridge Information > Shop Drawings. File is titled: **Guide to Electronic Shop Drawing Submittal.**)

For information on the electronic shop plan process, please visit the Bridge Division/Fabrication Branch web pages at:

http://www.txdot.gov/business/contractors_consultants/bridge/shop_drawings.htm

The Guide to Electronic Shop Drawing Submittal at:

ftp://ftp.dot.state.tx.us/pub/txdot-info/library/pubs/bus/bridge/e_submit_guide.pdf

and the Submittal Requirements table at:

ftp://ftp.dot.state.tx.us/pub/txdot-info/library/pubs/bus/bridge/electronic_submission.pdf

have been updated to include additional guidance on segmental bridge submittals.

And

Copies of the standard shop drawings are on file with Traffic Operations Division, Bridge Division, and the Materials Section of Construction Division. Additional shop drawings for roadway illumination assemblies built in conformance with these drawings are not required. Pre-approved shop drawing manufacturers and assembly model numbers can be found at TxDOT website (Business with TxDOT > Materials Information > Material Producer List. Category is Roadway Illumination and Electrical Supplies

1. In the E-mail “To:” box place the E-mail address to the following:

Submit all Shop Drawings (and Working Drawings, if/when required), which do not require direct submittal to the **Bridge Division Fabrication Section**, electronically, to the following address:

North Austin Area	Brenda Guerra	Brenda.Guerra@txdot.gov	AUS_NA-ShopReview@txdot.gov
-------------------	---------------	--	--

Consultant E-Mail Contact:**2. In the e-mail “CC:” or “Copy To:” box place the following E-mail addresses:**

In every e-mail submittal, the “CC:” or “Copy To:” line of the header will include the following e-mail addresses:

a. Contractor’s Contact:

AND

b. Area Office Contact:

North Austin Area	Brenda Guerra	Brenda.Guerra@txdot.gov	AUS_NA-ShopReview@txdot.gov
-------------------	---------------	--	--

ITEM 6 - CONTROL OF MATERIALS

Article 6.5. Give a minimum of 24 hours of notice for materials, which require Inspection at the Plant.

ITEM 7 – LEGAL RELATIONS AND RESPONSIBILITIES**Article 7.19**

Do not initiate activities in a Project Specific Location (PSL) associated with a U.S. Army Corps of Engineers (USACE) jurisdictional area that have not been previously evaluated by the USACE as part of the permit review of this project. Such activities include, but are not limited to, haul roads, equipment staging areas, borrow and disposal sites. Associated defined here means materials are delivered to or from the PSL. The jurisdictional area includes all waters of the U.S. including wetlands or associated wetlands affected by activities associated with this project. Special restrictions may be required for such work. Consult with the USACE regarding activities, including Project Specific Locations (PSLs) that have not been previously evaluated by the USACE. Provide the Department with a copy of all consultations or approvals from the USACE before initiating activities.

Proceed with activities in PSLs that do not affect a USACE jurisdictional area if a self-determination has been made that the PSL is non-jurisdictional or proper USACE clearances have been obtained in jurisdictional areas or have been previously evaluated by the USACE as part of the permit review of this project. Document any determinations that their activities do not affect a USACE jurisdictional area. Maintain copies of their determinations for review by the Department or any regulatory agency.

The Contractor must document and coordinate with the USACE, if required, before any excavation hauled from or embankment hauled into a USACE jurisdictional area by either (1) or (2) below.

(1) Restricted Use of Materials for the Previously Evaluated Permit Areas.

Document both the project specific location (PSL) and their authorization. Maintain copies for review by the Department or any regulatory agency. When an area within the project limits has been evaluated by the USACE as part of the permit process for this project:

- a. Suitable excavation of required material in the areas shown on the plans and cross sections as specified in Item 110, Excavation, is used for permanent or temporary fill (Item 132, Embankment) within a USACE jurisdictional area;
- b. Suitable embankment (Item 132) from within the USACE jurisdictional area is used as fill within a USACE evaluated area; and,
- c. Unsuitable excavation or excess excavation ["Waste"] (Item 110, Excavation) that is disposed of at an approved location within a USACE evaluated area.

(2) Contractor Materials from Areas Other than Previously Evaluated Areas.

Provide the Department with a copy of all USACE coordination or approvals before initiating any activities in a jurisdictional area within the project limits that has not been evaluated by the USACE or for any off right of way locations used for the following, but not limited to, haul roads, equipment staging areas, borrow and disposal sites:

- a. Item 132, Embankment, used for temporary or permanent fill within a USACE jurisdictional area; and,
- b. Unsuitable excavation or excess excavation ["Waste"] (Item 110, Excavation) that is disposed of outside a USACE evaluated area.

The total area estimated to be disturbed for this project is 29.38 acres. The disturbed area in this project, all project locations in the Contract, and the Contractor project specific locations (PSLs), within 1 mile of the project limits, for the Contract will further establish the authorization requirements for storm water discharges. The Department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction activities shown on the plans. The Contractor is to obtain required authorization from the TCEQ for Contractor PSLs for construction support activities on or off the ROW. When the total area disturbed in the Contract and PSLs within 1 mile of the project limits exceeds 5 acres, provide a copy of the Contractor NOI for PSLs on the ROW to the Engineer and to the local government that operates a separate storm sewer system.

This project required formal consultation, permits, or both with environmental resource agencies. Environmentally sensitive areas will most likely be encountered on Contractor designated PSLs for this project.

TxDOT has assumed a U.S. Army Corps of Engineers' (USACE) Nationwide Permit #3 (a) [NWP #3(a)] for this project. The requirement of NWP #3(a) will be adhered to and all disturbed areas will be restored to their original contours after construction is complete. The areas affected by the temporary fills would be revegetated, as appropriate.

A project that requires a USACE permit must use at least one of the Best Management Practices (BMP) from each category listed on the Texas Commission on Environmental Quality (TCEQ) Section 401 checklist for NWP's. The erosion control BMP for this project would be blankets/matting. The post construction total suspended solid control BMP for this project would be vegetative lined ditches. The sedimentation control BMP for this project would be silt fences and rock berms.

Do not park equipment or make stockpiles where driver sight distance to businesses and side street intersections is obstructed, especially after work hours. If it is necessary to park where drivers' views are blocked, make every effort to flag traffic accordingly. Give the travelling public first priority.

Maintain positive drainage for permanent, as well as, temporary drainage for the duration of the project. This work is the sole responsibility of the Contractor. Construct temporary and permanent drainage systems prior to the placement of temporary pavement, when possible, but absolutely prior to the placement of permanent pavement. Be responsible for any items associated with the temporary/interim drainage and all related maintenance. No direct payment will be made for this work. The Engineer will have the final authority in determining/approving the adequacy of any temporary/permanent drainage features installed.

Migratory Birds

The Contractor's attention is directed to the fact that there is the possibility that migratory birds may be nesting within the project limits. Migratory bird nesting activity can be concentrated on roadway structures such as bridges and culverts. Remove all old migratory bird nests from any structures between September 1 and January 31, and while the nests are not occupied or being used by migratory birds. In addition, be prepared to prevent migratory birds from re-nesting between February 1 and August 31.

All methods used for the removal of old bird nests and the prevention of re-nesting must be approved by the Engineer, well in advance of the planned use.

In the event that any active nest of a migratory bird species is encountered on-site during project construction, all construction activity, within the immediate vicinity of the nest, will cease immediately. Contact the Engineer to determine how to proceed.

No blasting on this project, unless otherwise allowed.

ITEM 8 – PROSECUTION AND PROGRESS

Article 8.3C. Work is allowed to be performed during the nighttime, with prior approval.

Provide a virus-free computer disk containing the Primavera construction schedule.

ITEM 9 – MEASUREMENT AND PAYMENT

Provide full-time, off-duty, uniformed, certified peace officers in officially marked vehicles, as part of traffic control operations, as directed.

Show proof of certification by the Texas Commission on Law Enforcement Standards.

No payment will be made for peace officers unless the Contractor completes the proper Department tracking form. Submit invoices that agree with the tracking form for payment at the end of each month, when approved services were provided. Request the tracking form from the Department.

No payment for officers used for moving equipment without prior written approval.

Cancel "Off-Duty" Peace Officers and their Motor Vehicle Units when the Scheduled lane closures are canceled. Failure to cancel the Off Duty Officers and their respective Motor Vehicle Units will not be cause for payment, by TxDOT, for "Show Up" time.

ITEM 100, 132 & 160 - PREP ROW, EMBANKMENT, & TOPSOIL

Do not burn brush, unless otherwise approved.

Use hand methods or other means to remove objectionable material and obstructions, if doing work by mechanical methods is impractical. Consider subsidiary to the pertinent Items.

ITEM 100 - PREPARING RIGHT OF WAY

Treat cuts on trees with an approved tree wound dressing within 20 minutes of making a pruning cut or otherwise causing damage to the tree, as directed. Consider subsidiary to the pertinent Items.

ITEM 110 & 132 – EXCAVATION & EMBANKMENT

Unsuitable material encountered in a cut or fill section will be considered waste. The Engineer will define unsuitable material. Material, which the Contractor might deem to be unsatisfactory or unsuitable, due to moisture content, will not be considered unsuitable material, unless otherwise approved.

Obtain approval of all compaction equipment prior to all backfilling and embankment operations.

ITEM 132 – EMBANKMENT (ALL)

The underlying layer or existing subgrade must be prepared and inspected prior to placement of the embankment. Proof roll the pavement area according to Item 216 prior to placement of embankment or subsequent layers. Payment will be in accordance with Item 216.

Prior to beginning any embankment placement, correct unstable material (e.g. dry, wet, loose, etc.) to a depth of 6 inches below existing subgrade elevation. This work will be considered subsidiary to pertinent bid items. Work to correct unstable material to a depth below 6 inches will be paid as extra work.

Correct subgrade (e.g. unstable areas, soft spots, etc.) prior to placing flexible base or HMA CP. Consider subsidiary to the pertinent Items.

ITEM 132 – EMBANKMENT TY B (NON-SELECT FILL)

If embankment will be treated with lime, cement or other calcium based additives and placed directly beneath the pavement section, furnish embankment with a sulfate content less than or equal to 3000 ppm, determine by Tex-145-E based on preliminary tests and subsequent tests found necessary by the Engineer.

When subgrade materials contain sulfates, as determined by Tex-145-E, use the following table for treatment of material placed under the pavement structure.

Sulfate Content (SC, ppm.)	Action
SC < 3000 ppm.	Apply calcium-based additive as specified by the pertinent item.
3000 ppm. ≤ SC < 7000 ppm	Perform a minimum of 7 days of mellowing and continuous water curing, in accordance to Department guidelines for soil treatment of sulfate-laden soils, as approved by the Engineer.
SC ≥ 7000 ppm.	Do not treat with calcium-based additives. Undercut to the specified depth and fill with select material or implement fly ash treatment as specified in the general notes for Item 265.

Stockpile imported TY B embankment at an approved location until it is approved by the engineer. The stockpile must be between 500 CY and 5000 CY and must not exceed a height of 15 FT. It is the Contractor's responsibility to identify and notify the Engineer of the location of the borrow source well in advance to allow time for testing and approval to avoid delay to the project. Allow a minimum of 3 working days for testing

ITEM 160 - TOPSOIL

Obtain approval of all topsoil sources before digging begins. Ensure off-site topsoil has a minimum PI of 25, or as directed. Ensure that the topsoil placed is similar to the topsoil that is within the project. To the extent possible, obtain as much of the topsoil from within the project site, or as directed. TxDOT reserves the right to take samples, as needed, to assure that the material meets the PI and other requirements as indicated in the Specifications (Fertility, Organics, Erodability, etc.).

No Sandy Loam allowed, unless the project dictates otherwise.

Obtain approval of the actual depth of the topsoil sources for both on-site and off-site sources.

Construct topsoil stockpiles of no more than five (5) feet in height.

It is permissible to use topsoil dikes for erosion control berms within the right of way, as directed.

Track ALL topsoiled slopes left idle for more than 14 days, within or at the end of the 14-day idle period, to prevent erosion. Tracking consists of operating a tracked vehicle or equipment up and down the slope, leaving track marks perpendicular to the direction of the slope. Retrack slopes after rain event, as directed. Consider the tracking of slopes to prevent erosion as subsidiary to the pertinent Items.

Upon final grading, immediately track all topsoiled slopes to prevent erosion, prior to seeding operations, as directed. Consider subsidiary to the pertinent Items.

Provide measurements for payment of topsoil quantities before seeding. Consider subsidiary to the pertinent Items.

Place Topsoil in accordance with the SW3P, in phases, as partial completion of the roadway is obtained.

Windrowing of topsoil obtained from the Right of Way (ROW) is not allowed. Pick up and place in an approved, central location, for distribution at a later date.

Perform topsoil measurements with the Engineer, as directed. Consider subsidiary to the pertinent Items.

ITEM 164 – SEEDING FOR EROSION CONTROL

Obtain vegetation establishment of all seeded areas, including adequate coverage, prior to “Final Acceptance.” If all other work is complete, time charges may be suspended, until adequate coverage is established.

Do not use ryegrass for temporary cover.

Reseed all areas with “little or no” grass growth after 1 month from the last seeding date, as directed. Consider subsidiary to the various bid Items.

Provide measurements for payment of seeding for erosion control quantities before seeding. Consider subsidiary to the pertinent Items.

Perform seeding for erosion control measurements with the Engineer, as directed. Consider subsidiary to the pertinent Items.

ITEM 166 – FERTILIZER

Use 13-13-13 fertilizer analysis, unless otherwise directed. Take soil samples, as directed, to determine the actual soil needs for fertilizer. Consider this work subsidiary to pertinent Items.

ITEM 168 – VEGETATIVE WATERING

Water all areas of project to be seeded or sodded.

Maintain the seedbed in a condition favorable for the growth of grass. Watering can be postponed immediately after a rainfall on the site of ½ inch or greater, but will be resumed before the soil dries out. Continue watering until final acceptance.

Vegetative watering rates and quantities are based on ¼ inch of watering per week over a 3-month watering cycle. The actual rates used and paid for will be as directed and will be based on prevailing weather conditions to maintain the seedbed.

Obtain water at a source that is metered (furnish a current certification of the meter being used) or furnish the manufacturer's specifications showing the tank capacity for each truck used. Notify the Engineer, each day that watering takes place, before watering, so that meter readings or truck counts can be verified.

ITEM 169 – SOIL RETENTION BLANKETS

Provide machined mat of curled wood excelsior of 80%, six-inch or longer fibers. The top of each blanket is covered with a photodegradable extruded plastic mesh. For the weight requirements, (lbs/sq yd), of the matting see DMS 6370, typical roll width = 48 or 96 inches; typical roll length = 90 feet. This soil retention blanket should meet the previous stated requirements, equal, or better as approved.

Use materials from prequalified material producers list as shown on the Texas Department of Transportation (TxDOT) ----- Construction Divisions (CST) materials producers list. See TxDOT website ([www.txdot.gov/Business with TxDOT > Materials Information > Material Producer List](http://www.txdot.gov/Business%20with%20TxDOT%20Materials%20Information%20Material%20Producer%20List)) for list of pre-qualified manufacturers. Direct all questions to the Maintenance Division, Vegetation Management Section, 125 E. 11th Street, Austin, TX 78701-2483.

ITEM 247 - FLEXIBLE BASE

Furnish Type D material.

Furnish flexible base meeting Grade 5 requirements.

The following table will govern the acceptance of compaction on base courses, when compacted in multiple courses. Compaction requirements are in percent of maximum dry density as determined by (Tex-113-E). When compacting in a single course, compact to at least 100% of maximum dry density as determined by Tex-113-E.

Item	Material	All Roadways	
		Lift	Min Density
247	FL BS (CMP IN PLC)	1	98%
		2 (final lift)	100%

Use Flex Base (CMP IN PL) (TY A GR 5) for driveways, minor streets, and other locations as directed.

Correct subgrade (e.g. unstable areas, soft spots, etc.) prior to the dumping of Flex Base. Consider subsidiary to the pertinent Items.

Roll shoulder base with a light pneumatic roller to prevent erosion.

Complete all subgrade, ditches, slopes, and place all drainage structures to conform to required lines, grades, and cross-sections, as shown and directed, prior to the placement of Flex Base.

For Flex Base placed over the box culverts, do not use a Vibratory Roller to compact the material.

ITEM 300 – ASPHALTS, OILS, AND EMULSIONS

Asphalt season starts May 1 and ends September 15.

ITEM 302 – AGGREGATES FOR SURFACE TREATMENTS

Previously tested aggregates delivered to the project, which are found to contain excessive quantities of dust (more than 0.5 percent passing the no. 40 sieve) during pre-coating, stockpiling or hauling operations, will be rejected, unless otherwise directed. Use test method Tex-200-F, Part II, for testing.

Article 302.2. Materials, Section A. Aggregate. Table 3 Los Angeles abrasion, % max, is revised with the following requirement:

Table 3
Aggregate Quality Requirements

Property	Test Method	Requirement	Requirement
Los Angeles abrasion, %, max	Tex-410-A	30	All aggregates

ITEM 310, 316, 351, & SS 3268

Perform work during good weather, unless otherwise directed. If work is performed at Contractor's option, when inclement weather is impending, and the work is damaged by subsequent precipitation, the Contractor is responsible for all costs associated with replacing the work, if required.

ITEM 310 – PRIME COAT

Apply blotter material to all driveways and intersections.

Any oil or asphaltic material being paid for on the project shall use tank strap method as shown in TxDOT Seal Coat and Surface Treatment Manual 2004-1.

ITEM 316 – SURFACE TREATMENTS

Do not apply asphalt within 1½ hours of sunset, or later, unless otherwise directed.

Ensure the accuracy of the Distance Measuring Instrument (DMI) with the Engineer, prior to marking the Asphalt and Rock Land shots.

- Ensure that all Surface Treatment/Seal Coat Operations are covered by HMAP before the workers leave the project, for that particular day's work, as directed.

Ensure the minimum aggregate surface classification is class B.

Surface all transitions, tapers, climbing lanes and intersections to the limits as directed.

Keep all traffic, including construction traffic, off freshly placed surface treatment, as directed.

Distribution to each control section will be proportioned to the volumetric quantity as shown on the “daily road report.”

Any oil or asphaltic material being paid for on the project shall use tank strap method as shown in TXDOT Seal Coat and Surface Treatment Manual 2004-1.

All transports will have a seal affixed at the point of origin. The Engineer will be present when the seal is broken on the Transport and will accept the shipping tickets and make distribution to the Contractor.

Furnish medium pneumatic-tire rollers in accordance with Item 210, “Rolling.”

ITEM 354 - PLANING AND TEXTURING PAVEMENT

Remove the loose material from the roadway before opening to traffic.

Plane a full lane width before opening to traffic at the end of a work period.

Taper transverse faces at ends of passes as directed.

Make Transverse Tapers on each end of each pass using a minimum slope rate of 50 feet H to 1 inch V.

ITEM 400 - EXCAVATION AND BACKFILL FOR STRUCTURES

Cut pavements with the use of a saw as directed. Consider subsidiary to pertinent Items.

Obtain approval of all compaction equipment prior to all backfilling and embankment operations.

Use Class “B” sand bedding for pipe and box culvert installation unless otherwise directed.

ITEM 403 – SPECIAL SHORING

Prior to construction, submit a Special Shoring Plan for TxDOT’s records.

ITEM 432 - RIPRAP

Make 5-inches thick unless otherwise noted or directed.

Where any proposed riprap joins existing riprap, saw cut the existing riprap and dowel/epoxy the joint as directed. Consider subsidiary to the pertinent Items.

Additional riprap may be required, as determined by the Engineer, near the end of project completion, due to unanticipated erosion locations. Any additional, approved riprap will be paid under this Item.

Consider saw cutting of riprap as subsidiary.

Provide Class B Concrete for riprap.

Stone Riprap may be artificial stone.

ITEM 460, 464, 466, & 467

When RCP or structure is to be placed below finished roadway subgrade and there is less than three foot of fill from top of RCP to finished subgrade elevation, then Cement Stabilized Backfill is required, as directed. Payment made under Item 400.

ITEM 460 - CORRUGATED METAL PIPE

Cut pipe ends, in the field, to match roadway side slopes, or as directed. Apply asphalt base aluminum paint to the cut ends.

Verify all side-road pipe lengths in the field to conform to a side slope ratio of 6H: 1V from the pipe flowline to the base crown of the side road or street.

Cut ditches to grade before laying pipe.

ITEM 466 - HEADWALLS AND WINGWALLS

Removal of existing headwalls and wingwalls will be considered subsidiary to pertinent Items.

Use Class C concrete for headwalls or wingwalls.

ITEM 467 - SAFETY END TREATMENT

Cut pipe ends, in the field, to match roadway side slopes, or as directed. Apply asphalt base aluminum paint to the cut ends.

All Type II SET's shall have mitered pipe ends and cast-in-place riprap aprons.

Use Class C concrete.

ITEM 496 - REMOVING STRUCTURES

The Contractor's attention is directed to the fact that migratory birds tend to concentrate nesting on transportation structures. If migratory bird nests are present within the project limits, remove all old migratory bird nests only between September 1 and January 31 from any structure where work will be done. In addition, be prepared to prevent migratory birds from building nests between February 1 and August 31.

All methods used for the removal of old bird nests and the prevention of re-nesting must be approved by the Engineer, well in advance of the planned use.

In the event that any active nest of migratory birds is encountered on-site during project construction, all construction activity, within the immediate vicinity of the nest, will cease immediately. Contact the Engineer to determine how to proceed.

Include a Traffic Control Plan (TCP) for any Structure(s) Removal, as directed.

ITEM 502 - BARRICADES, SIGNS, AND TRAFFIC HANDLING

Nighttime lane closures will be allowed from **8:00 PM to 6:00 AM**, unless otherwise shown on the plans.

Unless otherwise approved, no daytime closures (main lanes and frontage roads) will be allowed.

The AE is the authority to approve additional lane closures, prior to any work.

Maintain a written record of documentation of “The Additional Approved Lane Closures.”

One lane will remain open, in each direction, at all times, unless otherwise shown on the plans or as approved by the AE.

Notify the Inspector so that they can notify Combined Transportation, Emergency, and Communications Center (CTECC) / Public Affairs Office, prior to implementing any “Approved Lane Closure” for a State Highway or Roadway. Provide notice no later than 11:00 AM (Central Time) and at least 24 hours prior to the closure. If the closure is scheduled on a Monday, then it will be called in by 11:00 AM on Friday. If the notification time falls on a State Holiday, which TxDOT observes, then make the notification to the Inspector by 11:00 AM on the day prior to the State Holiday. If you find you will need to report closure information after the 11:00 AM deadline, please contact Area Office for Construction Closures and/or Lowell Choate for Maintenance Closures. Once they have approved the late notice, TxDOT will then provide the information to the Public Information Office.

Also, provide “Advance Notice” of the Actual Lane Closure(s), on the Day (Night) of the Actual Lane Closure(s), to the TxDOT Inspector so that they can notify CTECC. Also, immediately upon removal of the Closure(s) provide notice to the TxDOT Inspector for them to notify CTECC.

Submit and secure concurrence, prior to the publication of any notices or placement of any traffic control devices for implementation of the traffic control plan, hereinafter called a Lane Closure Notice (LCN).

Present to TxDOT, an LCN for traffic control, which is proposed for implementation, a minimum of four (4) full working days preceding any proposed implementation date. Indicate the estimated date, time, duration, and location for the proposed work. As a part of the LCN submit a written description of the lane closure(s) depicting the proposed traffic control devices used, based on the appropriate plan sheet, TxDOT or TMUTCD standards, and an operational description of the work to be performed.

Receive concurrence prior to LCN implementation.

Meet with the Engineer prior to roadway and lane closures to ensure that sufficient equipment, materials, devices, and workers will be used. Discuss contingency plans at that time. Consider inclement weather prior to implementing the lane closures.

Submit a cancellation of any lane closures, no later than noon on the day preceding the proposed work.

Take immediate action to modify Closures / Traffic Control, if at any time backup (roadway queuing) becomes unreasonable (greater than 20 minutes). Have in place, a contingency plan of how this will occur.

Do not set up any Lane Closure / TCP when the pavement is wet prior to the “setup,” unless otherwise directed. Revise Traffic Control, when inclement weather is imminent, as directed.

Incorporate and maintain a 3H: 1V safety wedge into the proposed construction for any roadway edge of 2 inches or greater adjacent to a roadway under traffic.

Within the limits of the project, provide standard barricades, warning signs, delineators, lights, 28-inch cones, and flaggers in enough numbers and combinations, as directed.

Use a minimum of 2 flaggers, 2 advance warning flashing arrow panels (TY C), 2 of each signs CW20-5TR or CW20-5TL with appropriate distance plaques and CW9-2TR or CW9-2TL and 28-in. cones at each location in which milling or paving operations are in progress. Maintain at least 1 lane of traffic in each direction during paving or milling operations. Maintain at least the minimum numbers of lanes as directed.

No Lane Closures on the Roadway that significantly reduce the level-of-service.

No closures will be allowed on the weekends, which include the following holidays: January 1, the last Monday in May, July 4, the first Monday in September, the fourth Thursday in November, December 25, Easter weekend, and the working day prior to or immediately after any of the aforementioned holidays. Unless otherwise approved, no closures will be allowed on the weekends of special events that could be impacted by the construction. Ensure all equipment, vehicles, workers, etc., associated with these closures are off the roadways and all lanes re-opened, at least, by noon of the Friday before these holidays and special events.

Use advance warning flashing arrow panels for the closing of traffic lanes. Furnish one stand-by unit, in good working condition at the jobsite, ready for immediate use.

Maintain access to all streets and driveways at all times, unless otherwise approved. Consider subsidiary to the pertinent Items.

Furnish advisory speed signs in enough numbers as directed.

Maintain enough workers to revise traffic control as directed.

Provide a “Downstream” Buffer Space ($\approx 100'$ per lane with devices spaced at $\approx 20'$) for each lane closure setup, as directed.

Maintain construction-warning signs, which are needed for longer periods than what is shown on the traffic control plan or as directed. Consider subsidiary to the pertinent Items.

Cover or remove any existing sign(s), which conflict with temporary traffic control operations. Install all permanent signs, delineation, and object markers necessary for the operation of any roadway before opening that section of roadway to traffic, regardless of the phase during which the roadway construction occurs. Erect the signs on temporary mounts until the permanent mounts are installed. Consider any costs associated with the temporary mounts subsidiary. Repair or replace any signs, which are damaged by the Contractor's operations during construction or which are deemed not sufficient. The Engineer will be the sole judge of the adequacy of the sign(s). Consider this work subsidiary to the pertinent Items.

Maintain Sandbags that are used for ballast, as directed. Consider subsidiary to the pertinent Items.

ITEM 504 - FIELD OFFICE AND LABORATORY

Asphaltic Material Testing Facility

Furnish a Type D structure for the asphalt-mix control laboratory for the Engineer's exclusive use. Ensure the floor has enough strength to support the testing equipment and has an impervious covering.

Ensure the Type D structure has adequate air conditioning and is furnished with a minimum of one desk, three chairs, one file cabinet, a telephone, and one built-in equipment storage cabinet for the storage of nuclear equipment. Make the cabinet a minimum of 3-feet wide by 2-feet deep by 3-feet high and make provisions for locking securely. Provide the structure with a 240-volt electrical service entrance. Provide a minimum of four 120-volt circuits with 20-amp breakers and at most two grounded convenience outlets per circuit and provisions for a minimum of two 220-volt ovens with vents to the outside. Provide a minimum of two convenience outlets per wall and a utility sink with an adequate clean potable water supply for testing. Space heaters for heating the structure are unacceptable. Provide support blocks and tie down portable structures for stability.

Provide an ignition oven for the use of Department to determine asphalt content in accordance to Tex-236-F. Provide other laboratory equipment as directed.

Provide to the Department and their representative a computer meeting the minimum specification requirements in DMS 10101 “Computer Equipment.” Provide a color printer no older than 2 years old. The operation system must be Microsoft XP-SP2, unless directed

otherwise. Provide DSL or better internet service. Computer must have at least two front USB ports. Consider subsidiary to pertinent Items.

Provide a permanent, fully equipped, indoor restroom, with toilet and running water as a part of the Type D structure, unless approved otherwise. Provide a monthly drinking water cooler with hot & cold taps and a monthly drinking water service, unless approved otherwise. Consider subsidiary to the pertinent Items.

Equivalent structures may be substituted for those specified under this Item, as agreed. The agreement must be in writing.

Maintain and repair any structure or equipment contained herein. Consider subsidiary to the pertinent Items.

ITEM 530 – INTERSECTIONS, DRIVEWAYS, AND TURNOUTS

Notify property owners a minimum of 48 hours in advance of beginning work on their driveways. Provide, to TxDOT, a list of each notification and contact prior to each closure.

Provide access, at all times, to adjacent property. Construct driveways one-half sections, to allow access.

Do not completely close driveways for reconstruction purposes, unless a reasonable alternate access exists to the property, as approved.

ITEM 540 - METAL BEAM GUARD FENCE

Adjust the limits of the Metal Beam Guard Fence (MBGF) to meet field conditions, as directed, before erection.

Before beginning the installation of the proposed MBGF, stake the locations for approval.

Furnish new, round, domed and unpainted timber posts. Furnish steel posts at locations where the minimum embedment shown on the plans for wooden posts cannot be achieved. Field verify the steel post lengths before fabrication. Consider the steel posts subsidiary to pertinent Items.

Install all permanent MBGF and delineators, when the roadway is constructed in one-half widths, on that section, before opening the road to traffic.

Area disturbed during the installation of posts to be filled with HMA CP. HMA CP to be considered subsidiary to pertinent bid items.

ITEM 542 – REMOVING METAL BEAM GUARD FENCE

Deliver all removed MBGF Rail Elements and removed Steel Posts that TxDOT deems as reusable, to TxDOT within a 50 mile radius of the project, as directed. Consider this work subsidiary to the various Items.

ITEM 560 - MAILBOX ASSEMBLIES

Supplement each new mailbox installation with Type 2 object marker placed on the mailbox support in a vertical position 6 in. below the bottom of the mailbox.

Reflective tape may be used to simulate a Type 2 marker placed on tubular supports. Use tape that meets DMS-8600. The simulated marker will consist of three (3)--2¾-inch x 2¾-inch pieces of yellow high intensity tape spaced 1 inch apart.

The Type 2 marker will consist of OM-2SR or OM-2VP object markers if delineator post supports are used. Bi-directional brackets may be required on Size 2 mailbox installations. Consider subsidiary to the pertinent Items.

The Engineer will have the final authority in determining whether to relocate the existing decorative mailbox or install a standard mailbox. Coordinate with the property owner to determine whether the existing decorative mailbox is returned to owner or discarded.

ITEM 585 - RIDE QUALITY FOR PAVEMENT SURFACES

Use Surface Test Type B to evaluate ride quality of travel lanes in accordance with Item 585, "Ride Quality for Pavement Surfaces."

ITEM 636

Existing Reference Marker signs shall be removed and relocated to proposed roadside sign assemblies. Coordinate with Engineer in field for location of relocated reference marker signs. Consider subsidiary to pertinent Items.

ITEM 662, 666, & 672

Notify the Engineer at least 24 hours in advance of removing existing striping and placing pavement markings & markers.

Apply markings during good weather unless otherwise directed. If markings are placed at Contractor's option, when inclement weather is impending, and the markings are damaged by subsequent precipitation, the Contractor is responsible for all costs associated with replacing the markings if required.

ITEM 662 - WORK ZONE PAVEMENT MARKINGS

Place temporary pavement markings each night, as directed.

Temporary Flexible Reflective Tabs are allowed and will be replaced daily if missing tabs. Replace tabs at the Contractor's expense.

Remove work zone pavement markings within 48 hours after permanent striping has been completed.

Foil backed pavement markings will not be allowed.

ITEM 666 - REFLECTORIZED PAVEMENT MARKINGS

Apply Type I ReflectORIZED Pavement Markings no sooner than 14 days after applying the final course of HMA CP, unless otherwise directed.

Reference existing channel islands, gores, and lane striping before commencing work. Provide referencing that will include a sketch of the layout to the Engineer. Obtain approval for placement of guidemarks from the Engineer before installing any permanent pavement markings. Consider subsidiary to the pertinent Items.

If TY II material is used (vs. an acrylic or epoxy) as the sealer for the TY I markings, place the TY II a minimum of 14 calendar days (to provide adequate curing) before placing the TY I markings.

Furnish double drop of TY II & TY III glass beads for all TY I markings.

Refer to Article 2.C.1. Glass Traffic Beads, Type I Markings. Furnish a double drop of Type II and Type III drop on glass beads where each type of bead is applied separately in equal portions (by weight). When furnishing a double-drop system, apply the Type III beads before applying the Type II beads.

ITEM 672 - RAISED PAVEMENT MARKERS

Place the bituminous adhesive at a temperature range of 380°F to 390°F. Place the pavement marker on the bituminous adhesive approximately 20 seconds after the adhesive is placed on the pavement. Ensure the pavement marker rests solely on the adhesive and not the pavement surface. Ensure that a minimum of 1/8 in. layer of bituminous adhesive remains between the pavement marker and the pavement surface.

ITEM 1122 - TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL CONTROLS

Obtain the Engineer's approval for proposed methods used for erosion control before starting each phase of construction.

Stockpile 4-inch by 8-inch (4" x 8") rock for emergency erosion control use, as directed. Place this rock in ditches and other areas, as directed. The Contractor will be reimbursed in accordance with Pertinent Items or Article 9.5, "Force Account."

Double-bag all sandbags used for erosion control Items. Consider subsidiary to pertinent Items.

ITEM SS 3239 & SS 3268 (HMA CP Testing)

The Contractor must sample asphalt binder, in accordance to the applicable item. Label the sample can with the corresponding CSJ, lot, and subplot numbers.

Samples must be stored in a common area where they are readily available to the TxDOT representative at the plant. The Contractor will be responsible for supplying storage for all samples. Retain all asphalt samples until hot mix production is complete or directed otherwise.

When directed, the Contractor is responsible for disposal of all asphalt binder samples, in accordance to Local, State, and Federal regulations.

[Hot Mix Asphaltic Conc (HMAC) Core Holes]

Refill and compact all HMAC core holes to the same elevation as the adjacent roadway. Use hot mix of the type being used in the project to fill core holes. As an alternative a high performance cold patching mix such as Rapid Cure Patching Mix meeting the requirements of DMS-9203 or Medium Cure Patching mix made with SCM meeting requirements of DMS-9202. Consider this work subsidiary to the pertinent Items.

ITEM 354, SS 3239, & SS 3268

Transition from the new ACP to the existing surface tie-in by utilizing a required milled transition to a vertical butt joint. Make the transition a minimum of 50 feet H: 1 inch V slope ratio of newly placed ACP. Make the temporary joint, at the tie-in, a minimum of a “3-paper-taper” longitudinally and covering the entire width. Sawcut existing pavement as directed. Prior to milling, core the existing pavement to determine its thickness. Do not proceed with milling until directed. Consider this work subsidiary to the pertinent Items.

ITEMS SS 3239 – THIN OVERLAY MIXTURE (TOM)

Provide mixture using PG 76-22.

Place mixture at the compacted lift thickness of 1 inch.

Use aggregate meeting a Surface Aggregate Classification (SAC) requirement of A for surface course mixtures.

A Warm Mix Asphalt additive is required with a discharge temperature greater than 300° F when the haul distance from the plant to the project is greater than 40 miles or the ambient temperature is between 60-70° F, unless otherwise directed. WMA processes, such as water or foaming processes, are not allowed under these circumstances.

Tack coat or underseal is required for the use of this overlay mixture.

Use of pneumatic-tire rollers is prohibited

Water flow rate should exceed 30 seconds tested in accordance to Tex-246-F. The Engineer will require the Contractor to perform water flow rate testing at least once per lot.

ITEM SS 3268 - DENSE-GRADED HOT-MIX ASPHALT (QC/QA)

Provide mixture Type B using PG binder 70-22.

Use aggregate meeting a Surface Aggregate Classification (SAC) requirement of “**B**” for surface course mixtures.

All base or non-surface mixtures require SAC “B” aggregate, unless directed otherwise.

Aggregates used on shoulders and ramps are required to meet SAC requirements.

Target laboratory molded density is 96.5% for mixtures without recycled asphalt and 97% for mixtures with recycled asphalt for TGC mixture designs.

When using Superpave Gyratory Compactor (SGC) to design mixtures, submit the SGC mix design to the Engineer for approval.

When using substitute binders, mold specimens for mix design and production at the temperature required for the substitute binder used to produce the HMA.

All mixtures must meet the Hamburg requirement as stated in the table below.

High-Temperature Binder Grade	Test Method	Hamburg Wheel Test <u>Requirements</u>¹		
		Minimum # of Passes	Maximum Rut Depth (mm)²	Minimum Rut Depth (mm)^{2,3}
PG 64 or lower	Tex-242-F	7,000	12.5	3
PG 70	Tex-242-F	15,000	12.5	3
PG 76 or higher	Tex-242-F	20,000	12.5	3

1. The Engineer may accept Hamburg Wheel test results for production and placement if no more than 1 of the 5 most recent tests is below the specified number of passes and the failing test is no more than 2,000 passes below the specified number of passes.
2. Rut depth tested @ 122°F
3. Unless approved otherwise.

Complete all roadways before final surface course placement, unless directed otherwise.

Ensure placement sequence to avoid excess distance of longitudinal joint lapback not to exceed one day's production rates.

Use a device to create a maximum 3H: 1V notched wedge joint on all hot mix joints of 2 in. or greater. Consider subsidiary to the pertinent Items.

Submit any proposed adjustments or changes to a job mix formula to the Engineer before production of the new job mix formula.

Tack every intermediate layer, unless otherwise directed. Do not dilute tack coat. Apply it through a distributor spray bar in accordance with Article 316.3(A) Distributor.

ITEM SS 5261 – GEOGRID BASE REINFORCEMENT

Geogrid to be placed between the two lifts of Flex Base.

CONTROL : 1186-01-087
PROJECT : STP 2015(277)HES
HIGHWAY : FM 969
COUNTY : TRAVIS

TEXAS DEPARTMENT OF TRANSPORTATION

GOVERNING SPECIFICATIONS AND SPECIAL PROVISIONS

ALL SPECIFICATIONS AND SPECIAL PROVISIONS APPLICABLE TO THIS PROJECT
ARE IDENTIFIED AS FOLLOWS:

STANDARD SPECIFICATIONS: ADOPTED BY THE TEXAS DEPARTMENT OF
----- TRANSPORTATION JUNE 1, 2004.
STANDARD SPECIFICATIONS ARE INCORPORATED
INTO THE CONTRACT BY REFERENCE.

ITEMS 1 TO 9 INCL., GENERAL REQUIREMENTS AND COVENANTS
ITEM 100 PREPARING RIGHT OF WAY (103)
ITEM 110 EXCAVATION (132)
ITEM 132 EMBANKMENT (100)(204)(210)(216)(400)
ITEM 160 TOPSOIL
ITEM 164 SEEDING FOR EROSION CONTROL (162)(166)(168)
ITEM 168 VEGETATIVE WATERING
ITEM 169 SOIL RETENTION BLANKETS
ITEM 247 FLEXIBLE BASE (105)(204)(210)(216)(520)
ITEM 310 PRIME COAT (300)(316)
ITEM 316 SURFACE TREATMENTS (210)(300)(302)
ITEM 351 FLEXIBLE PAVEMENT STRUCTURE REPAIR (132)(204)(247)(260)
(263)(275)(276)(292)(310)(316)(330)(334)(340)
ITEM 354 PLANING AND TEXTURING PAVEMENT
ITEM 400 EXCAVATION AND BACKFILL FOR STRUCTURES (132)(401)(420)
(421)
ITEM 402 TRENCH EXCAVATION PROTECTION
ITEM 403 TEMPORARY SPECIAL SHORING (423)
ITEM 420 CONCRETE STRUCTURES (400)(404)(421)(426)(427)(438)(440)
(441)(448)
ITEM 432 RIPRAP (247)(420)(421)(427)(431)(440)
ITEM 460 CORRUGATED METAL PIPE (400)(445)(476)
ITEM 464 REINFORCED CONCRETE PIPE (400)(476)
ITEM 466 HEADWALLS AND WINGWALLS (400)(420)(421)(430)(440)(464)
ITEM 467 SAFETY END TREATMENT (400)(420)(421)(430)(432)(440)(445)
(460)(464)
ITEM 496 REMOVING STRUCTURES (430)
ITEM 500 MOBILIZATION
ITEM 502 BARRICADES, SIGNS, AND TRAFFIC HANDLING
ITEM 504 FIELD OFFICE AND LABORATORY

SPECIAL PROVISION	TO ITEM	169	(169---002)
SPECIAL PROVISION	TO ITEM	247	(247---033)
SPECIAL PROVISION	TO ITEM	260	(260---003)
SPECIAL PROVISION	TO ITEM	275	(275---003)
SPECIAL PROVISION	TO ITEM	300	(300---039)
SPECIAL PROVISION	TO ITEM	302	(302---010)
SPECIAL PROVISION	TO ITEM	316	(316---016)
SPECIAL PROVISION	TO ITEM	318	(318---010)
SPECIAL PROVISION	TO ITEM	330	(330---001)
SPECIAL PROVISION	TO ITEM	340	(340---003)
SPECIAL PROVISION	TO ITEM	360	(360---013)
SPECIAL PROVISION	TO ITEM	420	(420---002)
SPECIAL PROVISION	TO ITEM	421	(421---035)
SPECIAL PROVISION	TO ITEM	431	(431---001)
SPECIAL PROVISION	TO ITEM	440	(440---006)
SPECIAL PROVISION	TO ITEM	441	(441---008)
SPECIAL PROVISION	TO ITEM	442	(442---016)
SPECIAL PROVISION	TO ITEM	448	(448---002)
SPECIAL PROVISION	TO ITEM	464	(464---006)
SPECIAL PROVISION	TO ITEM	476	(476---003)
SPECIAL PROVISION	TO ITEM	500	(500---011)
SPECIAL PROVISION	TO ITEM	502	(502---033)
SPECIAL PROVISION	TO ITEM	530	(530---006)
SPECIAL PROVISION	TO ITEM	540	(540---031)
SPECIAL PROVISION	TO ITEM	560	(560---001)
SPECIAL PROVISION	TO ITEM	636	(636---014)
SPECIAL PROVISION	TO ITEM	643	(643---001)
SPECIAL PROVISION	TO ITEM	672	(672---034)
SPECIAL PROVISION	TO SPECIAL SPECIFICATION ITEM	1122	(1122--001)
SPECIAL PROVISION	TO SPECIAL SPECIFICATION ITEM	6834	(6834--002)

SPECIAL SPECIFICATIONS:

ITEM 1122 TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL
CONTROLS (161)(432)(556)

ITEM 3239 THIN OVERLAY MIXTURE (TOM)

ITEM 3268 DENSE-GRADED HOT-MIX ASPHALT (210)(300)(301)(320)(520)
(585)

ITEM 5261 GEOGRID BASE REINFORCEMENT

ITEM 6834 PORTABLE CHANGEABLE MESSAGE SIGN

ITEM 8020 REFLECTORIZED PROFILE PAVEMENT MARKINGS

GENERAL: THE ABOVE-LISTED SPECIFICATION ITEMS ARE THOSE UNDER WHICH
----- PAYMENT IS TO BE MADE. THESE, TOGETHER WITH SUCH OTHER
PERTINENT ITEMS, IF ANY, AS MAY BE REFERRED TO IN THE ABOVE-
LISTED SPECIFICATION ITEMS, AND INCLUDING THE SPECIAL
PROVISIONS LISTED ABOVE, CONSTITUTE THE COMPLETE SPECIFI-
CATIONS FOR THIS PROJECT.

SPECIAL PROVISION**000--3062****Important Notice to Contractors**

As of October 10, 2014 utilities within the project limits have not been cleared. The Department anticipates clearance by the dates listed below. Unless otherwise stated, clearance of these obstructions will be performed by their owners. Estimated clearance dates are not anticipated to interfere with the Contractor's operations. In the event the clearance dates are not met, requests for additional compensation or time will be made in accordance with the standard specifications.

The Contractor is invited to review the mapped information of obstructions on file with the Engineer.

UTILITY			
Utility Owner	Approximate Location	Estimated Clearance Date	Effect on Construction
AT&T	Project Limits	Feb 2015	No Effect on Construction

SPECIAL PROVISION

008---008

Prosecution and Progress

For this project, Item 008, "Prosecution and Progress," of the Standard Specifications, is hereby amended with respect to the clauses cited below, and no other clauses or requirements of this Item are waived or changed hereby.

Article 8.3. Computation of Contract Time for Completion. The first sentence of the first paragraph is voided and replaced by the following:

Working day charges will begin 120 calendar days after the date of the written authorization begin work, or the first day of construction activity if work is initiated within the 120 day period.